(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 1 September 2005 (01.09.2005)

PCT

(10) International Publication Number WO 2005/079193 A2

(51) International Patent Classification: Not classified

(21) International Application Number:

PCT/US2004/030277

(22) International Filing Date:

15 September 2004 (15.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/504,034

19 September 2003 (19.09.2003) US

- (71) Applicant (for all designated States except US): **NOVOZYMES NORTH AMERICA, INC. [US/US]; 77** Perry Chapel Church Road, Franklinton, NC 27525 (US).
- (72) Inventors; and
- (72) Inventors; and
 (75) Inventors/Applicants (for US only): HENDE Lori [US/US]; 6824 Moresham Way, Wake For 27614 (US). HIGGINS, Don [US/US]; 4060 R: Drive, Franklinton, NC 27525 (US).

 (74) Agent: NOVOZYMES NORTH AMERICA, IN Fifth Avenue, Suite 1600, New York, NY 10110 (US)

 (75) Title: PROCESSES FOR MAKING ETHANOL OF Control of the present invention provides a process. (75) Inventors/Applicants (for US only): HENDERSON, Lori [US/US]; 6824 Moresham Way, Wake Forest, NC 27614 (US). HIGGINS, Don [US/US]; 4060 Ridgeway
 - (74) Agent: NOVOZYMES NORTH AMERICA, INC.; 500 Fifth Avenue, Suite 1600, New York, NY 10110 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(57) Abstract: The present invention provides a process for producing ethanol, comprising the step of treating distillers' grain with a fatty acid oxidizing enzyme.